

WEST Search History

DATE: Friday, September 12, 2003

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
<i>DB=USPT,PGPB,JPAB,EPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=ADJ</i>			
L10	L9 SAME INTEGRIN\$	8	L10
L9	ALPHA ADJ 10	774	L9
L8	LUNDGREN-AKERLUND-\$.IN.	1	L8
L7	VDASFRPQGXLAP	0	L7
L6	VDASFRPQGXLAPL5	0	L6
L5	FAMGALPD	0	L5
L4	AAFDGSGQR	0	L4
L3	AAFDGSGQRL2	0	L3
L2	GPGHWDR	0	L2
L1	DNTAQTSAYIQYEPHHSI	0	L1

END OF SEARCH HISTORY

=> D HIS

(FILE 'HOME' ENTERED AT 09:42:28 ON 12 SEP 2003)

FILE '1MOBILITY, AGRICOLA, AQUASCI, BIOTECHNO, COMPENDEX, COMPUAB, CONF, CONFSCI, ELCOM, HEALSAFE, IMSDRUGCONF, LIFESCI, OCEAN, MEDICONF, PASCAL, PAPERCHEM2, POLLUAB, SOLIDSTATE, CAPLUS, ADISCTI, ADISINSIGHT, ADISNEWS, ANABSTR, BIOBUSINESS, BIOCOMMERCE, ...' ENTERED AT 09:43:39 ON 12 SEP 2003

E LUNDGREN-AKERLUND EVY?/AU

L1 31 S E1 OR E4
L2 1 S L1 AND (ALPHA (A) 10)
E CAMPER LISBET?/AU
L3 14 S E1 OR E2
L4 6 S L3 AND (ALPHA (A) 10)
L5 24556 S ALPHA (A) 10
L6 261 S L5 (S) INTEGRIN?
L7 74 S L6 (S) COLLAGEN
L8 21 DUP REM L7 (53 DUPLICATES REMOVED)

L4 ANSWER 4 OF 6 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 2002:270929 BIOSIS
DOCUMENT NUMBER: PREV200200270929
TITLE: Distribution of the collagen-binding integrin alpha10beta1
during mouse development.
AUTHOR(S): Camper, Lisbet; Holmvall, Karin; Wangnerud,
Christel; Aszodi, Attila; Lundgren-Akerlund, Evy (1)
CORPORATE SOURCE: (1) Biomedical Center, Cartela AB, B12. 221 84, Lund:
Evy@cartela.se Sweden
SOURCE: Cell & Tissue Research, (October, 2001) Vol. 306, No. 1,
pp. 107-116. print.
ISSN: 0302-766X.
DOCUMENT TYPE: Article
LANGUAGE: English
AB We have previously identified and characterised the collagen type
II-binding integrin subunit alpha10, which is a member of the beta1 family
and is expressed by chondrocytes. In the present study, we examined the
expression of the alpha10 integrin in various mouse tissues.
Immunohistochemical analysis of alpha10 on cryosections from 3-day-old
mice demonstrated that alpha10beta1 was present in the hyaline cartilage
of joints, vertebral column, trachea and bronchi. In addition, alpha10 was
found in the ossification groove of Ranvier, in the aortic and
atrioventricular valves of the heart and in the fibrous tissue lining
skeletal muscle and ligaments. Overall, the distribution was distinct from
that of the collagen-binding integrins alpha1beta1 and alpha2beta1. We
also found that alpha10beta1 was the dominating collagen-binding integrin
during cartilage development. Expression of alpha10 appeared at embryonic
day 11.5 (E11.5) at the same time as chondrogenesis started as judged by
collagen type II expression. At E13.5, alpha10 was present throughout the
anlage as well as in the perichondrium and in mesenchyme just outside the
perichondrium, where it localised with collagen type I. Four weeks after
birth, alpha10 was prominent both at the articular surface and in the
growth plate. In conclusion, we found that integrin alpha10beta1 was a
major collagen-binding integrin during cartilage development and in mature
hyaline cartilage. In addition, we found that alpha10beta1 was present in
some fibrous tissues.